

LUNG CANCER



LUNG CANCER is not a single disease; rather, it is a group of cancers that originate in the lung and associated tissues. Lung cancer is the leading cause of preventable and premature cancer deaths in the United States and Indiana, killing an estimated 150,000 Americans and approximately 3,800 Indiana residents every year.1

Figure 1. Burden of Invasive Lung Cancer — Indiana, 2007-2011

	Average number of cases per year (2007–2011)	Rate per 100,000 people* (2007-2011)	Number of cases 2011	Rate per 100,000 people [*] 2011
Indiana Incidence	5,177	75.1	4,840	67.8
Indiana Deaths	4,016	58.5	3,866	54.2

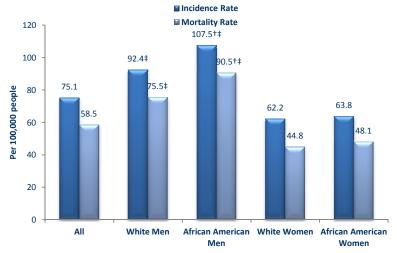
*Includes lung and bronchus cancers combined

†Aae-adiusted

Source: Indiana State Cancer Registry

SMOKING accounts for 87 percent of lung cancer deaths and at least 30 percent of all cancer deaths. If all tobacco smoking were stopped, the occurrence of lung cancer would decrease by an estimated 90 percent. However, in Indiana, 24 percent of adults continue to smoke tobacco, placing them at great risk for developing lung and other types of cancer.2

Figure 2. Age-adjusted Lung Cancer Incidence and Mortality Rates, by Race and Sex, 2007-2011



^{*}Aae-adjusted

‡Rate among males is significantly higher (P<.05) than rate among females of the same race

Source: Indiana State Cancer Registry

Who Is Most At Risk?

Smokers

- Lung cancer mortality rates are about 23 times higher for current male smokers and 13 times higher for current female smokers compared to people who have never smoked.3
- Over one million adults in Indiana still smoke and Indiana's adult smoking rate remains among the highest in the nation (median adult smoking rate in the United States: 19.6 percent in 2012).2

Those exposed to secondhand smoke

Each year, an estimated 50,000 Americans and 1,240 Hoosier nonsmokers die from exposure to secondhand smoke (smoke breathed in involuntarily by someone who is not smoking).3

Those exposed to other cancer-causing agents

Exposure to asbestos, radon, arsenic, talc, vinyl chloride, coal products and radioactive ores like uranium can increase people's risk for developing lung cancer, especially if they also smoke tobacco.

Males, especially African American males⁴

- During 2007-2011, Indiana males, compared to females, had a 50 percent greater lung cancer incidence rate and a 70 percent greater mortality rate. This is mainly because a higher percentage of males have been smokers compared to females.
- In 2012, 26.5 percent of adult males and 21.6 percent of adult females reported being current smokers.
- African American males, in Indiana, have approximately 16 percent greater incidence and 20 percent greater lung cancer mortality rates than do white males.

Common Signs and Symptoms of Lung Cancer

- Persistent cough
- Sputum streaked with blood
- Chest pain
- Voice changes
- Recurrent pneumonia or bronchitis

[†]Significantly elevated (P<.05) compared to white males





Can Lung Cancer Be Detected Early?

■ Early detection has not been shown to be effective in reducing mortality from lung cancer. Although recent advancements in diagnostic testing, such as low dose spiral computed tomography (also known as spinal CT) scans and molecular markers in sputum, have shown more promising outcomes and are being evaluated further for possible risks and their effectiveness.

What Factors Influence Lung Cancer Survival?

- Lung cancer is often diagnosed at a later stage, which negatively impacts a person's odds of survival. The five-year survival rate is highest (53.5 percent) if the lung cancer is diagnosed when it is confined entirely within the lung (i.e., localized). However, in Indiana, during 2007-2011, only 18.3 percent of lung cancers were diagnosed during this stage.⁵
- The one-year relative survival for lung cancer increased from 37 percent during 1975-1979 to 44 percent during 2005-2008, largely because of improvements in surgical techniques and combined therapies. However, the five-year survival rate for all stages combined is currently only 16 percent.
- Treatment options are determined by the type (small cell or non-small cell) and stage of cancer and include surgery, radiation therapy, chemotherapy and targeted therapies. For localized cancers, surgery is usually the treatment of choice. Because the disease has usually spread by the time it is discovered, radiation therapy and chemotherapy are often used, sometimes in combination with surgery.

TAKE ACTION: Steps to prevent and control lung cancer

For you:

- Be tobacco and smoke free: Call 1-800-QUIT-NOW or visit www.QuitNowIndiana.com for free tobacco cessation assistance.
- Avoid all secondhand smoke exposure.

For your community:

- Support smoke-free air policies and higher taxes on *all* tobacco products.
- □ Support tobacco control program funding to help reduce smoking rates and lessen the health care costs, including approximately \$487 million in Medicaid payments alone.
- □ Support the continued adoption of smoke-free workplaces. The United States Surgeon General has concluded that smoke-free workplace policies are the only effective way to eliminate exposure to secondhand smoke in the workplace and lead to less smoking among workers.
- □ Support health care provider outreach efforts that help decrease tobacco consumption and increase quit attempts.

GET INVOLVED: Join the Indiana Cancer Consortium (ICC)

- ☐ The ICC is a statewide network of over 100 agencies including the Indiana State Department of Health.
- ICC seeks to reduce the cancer burden in Indiana through the development, implementation and evaluation of a comprehensive plan that addresses cancer across the continuum from prevention through palliation.
- Become a member at www.IndianaCancer.org.

Community Resources

- □ To get help with tobacco cessation, call the <u>Indiana Tobacco Quitline</u> at 1-800-QUIT-NOW (1-800-784-8669) or visit <u>www.QuitNowIndiana.com</u>.
- □ To learn more about <u>Indiana's Smoke Free Air Law</u>, visit <u>www.BreatheIndiana.com</u>.
- □ To learn more about the Lung Cancer Burden in Indiana, refer to the <u>Indiana Cancer Facts and Figures 2012: Lung Cancer</u> report at <u>www.IndianaCancer.org</u>.

References

- Indiana Cancer Consortium, Indiana State Department of Health and the American Cancer Society Great Lakes Division; Indiana Cancer Facts and Figures 2012. March, 2012. Available at http://indianacancer.org/resources-for-indiana-cancer-consortium-members/indianacancerfactsandfigures2012/. Updated cancer statistics are available online from the Indiana State Cancer Registry Statistics Report Generator at http://www.in.gov/isdh/24360.htm.
- 2. Centers for Disease Control and Prevention, Behavior Risk Factor Surveillance Survey, 2012.
- Centers for Disease Control and Prevention, Smoking and Tobacco Fact Sheet. Accessed at http://www.cdc.gov/tobacco/data statistics/fact sheets/health effects/tobacco related mortality/ on September 30, 2013.
- 4. Indiana State Cancer Registry Statistics Report Generator. Accessed online at http://www.in.gov/isdh/24360.thm on September 30, 2013.
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